

Main Unit - 52200

These Mechatronics systems are fully functional models of actual applications, mimicking hybrid, real life, industrial automation scenarios. Various Automation and Handling Task modules such as feeding, conveying, pick & place, transporting, forming and storage modules are available. Wide range of Modular Manufacturing Systems like, Dispensing Station, Inspection Station, Buffer Station, Processing Station, Sorting Station are suitable for modular assembly are available. A wide variety of project assignments and learning objectives help students to build hybrid systems by integrating important automation technologies, such as Pneumatics, Electrical, PLC, Mechanical, Sensors.

- Dispensing Station : Stack magazine and vacuum switch module for distribution of work piece for inspection
- Inspection Station: Pneumatic linear drive fitted with linear transducer measures the height of work piece and segregates the approved / rejected ones
- Buffer Station: Holds a buffer stock of maximum 5 work pieces and feeds them to the processing station
- Processing Station: Demonstrates processes like drilling, inspection and transfer of finished component to the next station
- Sorting Station: Finished components are sorted to the appropriate bay based on their material and colour
- Pneumatics
- Electrical
- PLC
- Mechanical
- Sensors

Note: Specifications are subject to change.

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Feeder station - 52200A



Technical Specification

Size (in cm)	: 54x70x134
Installation	: Vertical
Ambient temperature	: 60°C Max.
Medium	: Filtered Compressed air
Operating Pressure range (Bar)	: 6-8 bar
Operating Voltage +/- 10%	: 230V AC, 50HZ
Power consumption	: 180 W (224 VA)
Sensors and actuator operating voltage	: 24V, DC
Material of construction	: Aluminum, mild steel, Plastic.etc.

Sr.No.	Item Description	Qty.
1	Horizontal profile table work bench	1
2	Stack magazine module	1
3	Changer module	1
4	Valve manifold assembly	1
5	Compact ejector assembly	1
6	IO Interface module with 25 pin D Sub connector.	1
7	FRL Assembly	1
8	PLC panel assembly - Siemens PLC (S7-1200) with 14 DI/10 DO & Integrated power supply	1
9	Acrylic Door assembly with magnetic lock	1
10	Control console assembly	1
11	Cable duct and accessories	1
12	Work book for Feeder station	1

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Inspection Station - 52200B



Technical Specification

Size (in cm)	: 68x64x135
Installation	: Vertical
Ambient temperature	: 60°C Max.
Medium	: Filtered Compressed air
Operating Pressure range (Bar)	: 6-8 bar
Operating Voltage +/- 10%	: 230V AC, 50HZ
Power consumption	: 180 W (224 VA)
Sensors and actuator operating voltage	: 24V, DC
Material of construction	: Aluminum, mild steel, Plastic.etc.

Sr.No.	Item Description	Qty.
1	Horizontal profile table work bench	1
2	Measuring module with LVDT	1
3	Slide module with approved and rejection slide	1
4	Valve manifold assembly	1
5	IO Interface module	1
6	FRL Assembly	1
7	PLC panel assembly - Siemens PLC (S7-1200) with 14 DI/10 DO, Analog input module with 4 inputs & Integrated power supply	1
8	Control console assembly	1
9	Cable duct and accessories	1
10	Acrylic Door assembly with magnetic lock	1
11	Work book for Inspection station	1

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Buffer Station - 52200C



Technical Specification

Size (in cm)	: 55x64x106
Installation	: Vertical
Ambient temperature	: 60°C Max.
Medium	: Filtered Compressed air
Operating Pressure range (Bar)	: 6-8 bar
Operating Voltage +/- 10%	: 230V AC, 50HZ
Power consumption	: 180 W (224 VA)
Sensors and actuator operating voltage	: 24V, DC
Material of construction	: Aluminum, mild steel, Plastic.etc.

Sr.No.	Item Description	Qty.
1	Horizontal profile table work bench	1
2	Conveyor assembly with DC brushless motor	1
3	Valve manifold assembly	1
4	IO Interface module	1
5	FRL Assembly	1
6	PLC panel assembly - Siemens PLC (S7-1200) with 14 DI/10 DO, DC brushless motor driver unit & Integrated power supply	1
7	Control console assembly	1
8	Acrylic Door assembly with magnetic lock	1
9	Cable duct and accessories	1
10	Workbook for Buffer station	1

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Process Station - 52200D



Technical Specification

Size (in cm)	: 72x64x141
Installation	: Vertical
Ambient temperature	: 60°C Max.
Medium	: Filtered Compressed air
Operating Pressure range (Bar)	: 6-8 bar
Operating Voltage +/- 10%	: 230V AC, 50HZ
Power consumption	: 180 W (224 VA)
Sensors and actuator operating voltage	: 24V, DC
Material of construction	: Aluminum, mild steel, Plastic.etc.

Sr.No.	Item Description	Qty.
1	Horizontal profile table work bench	1
2	Rotary indexing table module	1
3	Drilling module	1
4	Pick and Place module	1
5	Valve manifold assembly	1
6	Compact ejector assembly	1
7	IO Interface module	1
8	FRL Assembly	1
9	PLC panel assembly - Siemens PLC (S7-1200) with 14 DI / 10 DO, Digital expansion module with 8 DI/ 8DO & Integrated power supplies	1
10	Control console assembly	1
11	Acrylic Door assembly with magnetic lock	1
12	Cable duct and accessories	1
13	Workbook for process station	1

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Sorting Station - 52200E



Technical Specification

Size (in cm)	:	54x64x110
Installation	:	Vertical
Ambient temperature	:	60°C Max.
Medium	:	Filtered Compressed air
Operating Pressure range (Bar)	:	6-8 bar
Operating Voltage +/- 10%	:	230V AC, 50HZ
Power consumption	:	180 W (224 VA)
Sensors and actuator operating voltage	:	24V, DC
Material of construction	:	Aluminum, mild steel, Plastic.etc.

Sr.No.	Item Description	Qty.
1	Horizontal profile table work bench	1
2	Conveyor assembly with DC brushless motor	1
3	Sorting slide assembly	1
3	Valve manifold assembly	1
4	IO Interface module	1
5	FRL Assembly	1
6	PLC panel assembly - Siemens PLC (S7-1200) with 14 DI/10 DO, DC brushless motor driver unit & Integrated power supply	1
7	Control console assembly	1
8	Acrylic Door assembly with magnetic lock	1
9	Cable duct and accessories	1
10	Workbook for Sorting station	1

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